

Safety Data Sheet

Issue Date: 09-Mar-2015

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Version: 1

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Code 21500215AU
Product Name: Peters Excel CalMag Finisher

Proper shipping name: Potassium nitrate Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use: Fertilizer
Uses Advised Against: Consumer use [SU 21].

1.3. Details of the supplier of the safety data sheet

Manufacturer

Everris Australia Pty Ltd, 211/33 Lexington Drive, Bella Vista, NSW 2153, Australia. Tel: +61(2) 8801 3300

For further information, please contact

INFO-MSDS@EVERRIS.COM

1.4. Emergency telephone number

Australia: (02) 8014 4558
 New Zealand: (09) 9929 1483

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Mixture

Regulation (EC) No 1272/2008

Acute toxicity - Oral- Category 5 (H303)	Category 4 - (H302)
Skin Corrosion or Irritation	Category 2 - (H315)
Serious Eye Damage or Eye Irritation	Category 2 - (H319)
Oxidizing solids	Category 3 - (H272)

2.2. Label elements

Product Identifier:



Signal Word:

Warning

Hazard Statements:

H315 - Causes skin irritation
 H319 - Causes serious eye irritation
 H302 - Harmful if swallowed
 H272 - May intensify fire; oxidizer
 Contains Ureaphosphate, Magnesium nitrate hexahydrate;
 Mg(NO₃)₂·6H₂O, Nitric acid ammonium calcium salt

Precautionary Statements - EU (§28, 1272/2008)

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P221 - Take any precaution to avoid mixing with combustibles
 P280 - Wear protective gloves/protective clothing/eye protection/face protection
 P337 + P313 - If eye irritation persists: Get medical advice/attention

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Ingredients	EC-No.	CAS-No	Weight %	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
Potassium Nitrate; KNO ₃	231-818-8	7757-79-1	30 - 60%	Ox. Sol. 3 (H272)	01-2119488224-35
Nitric acid ammonium calcium salt	239-289-5	15245-12-2	10 - 30%	Eye Dam. 1 (H318) Acute Tox. 4 (H302)	01-2119493947-16
Magnesium nitrate hexahydrate; Mg(NO ₃) ₂ ·6H ₂ O	233-826-7	13446-18-9	10 - 30%	Eye Irrit. 2 (H319)	01-2119491164-38
Ureaphosphate	225-464-3	4861-19-2	10 - 30%	Skin Corr. 1B (H314)	01-2119489460-34
Boric Acid; H ₃ BO ₃	233-139-2	10043-35-3	0.1 - 1%	Repr. 1B (H360FD)	01-2119486683-25
Copper-EDTA; Cu-EDTA	237-864-5	14025-15-1	0.1 - 1%	Eye Irrit. 2 (H319) Acute Tox. 4 (H302)	01-2119963944-23

Full text of H- and EUH-phrases: see section 16

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

General Advice:	First aid measures should be executed by trained personnel only.
Inhalation:	Move to fresh air. If not breathing, give artificial respiration. If symptoms persist, call a physician.
Skin Contact:	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.
Eye Contact:	Rinse thoroughly with plenty of water, also under the eyelids. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. If eye irritation persists, consult a specialist.
Ingestion:	Call a physician or Poison Control Centre immediately.
Protection of First-Aiders:	Low hazard for usual industrial or commercial handling.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms: None under normal processing

4.3. Indication of any immediate medical attention and special treatment needed

Notes to Physician: None under normal processing.

Section 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media:

Coordinate fire extinguishing measures to fire in surrounding area. Flooding quantities of water.

Unsuitable extinguishing media:

High volume water jet.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating and toxic gases and vapors. The product itself does not burn. May intensify fire; oxidizer.

5.3. Advice for firefighters

Coordinate fire extinguishing measures to fire in surrounding area.

Hazchem code:

1Z

Section 6: ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures****Personal Precautions:** Ensure adequate ventilation. Wear personal protective equipment. Evacuate personnel to safe areas.**For Emergency Responders:** Use personal protection recommended in Section 8.**6.2. Environmental precautions**

Do not allow product to enter the environment uncontrolled.

6.3. Methods and material for containment and cleaning up**Methods for Containment:** Prevent further leakage or spillage if safe to do so.**Methods for Cleanup:** Take up mechanically and collect in suitable container for disposal. If material is uncontaminated, collect and reuse as recommended for product.**6.4. Reference to other sections**

§ 8, 12, 13.

Section 7: HANDLING AND STORAGE**7.1. Precautions for safe handling**

General hygiene considerations:

Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. When using, do not eat, drink or smoke.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures/storage conditions:

Keep container tightly closed in a dry and well-ventilated place. For quality reasons: Keep out of reach of direct sunlight, store under dry conditions, partly used bags should be closed well.

LGK (Germany)

Packaging Materials:

5.1B

Bags or Bulk.

7.3. Specific end use(s)

Specific use(s)

Fertilizer; Read and follow label instructions; www.everris.com

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters***Potassium Nitrate; KNO₃*

Australia TWA	> 10 mg/m ³
Bulgaria - Occupational Exposure Limits - TWAs	5.0 mg/m ³ TWA
Latvia - Occupational Exposure Limits - TWAs	5 mg/m ³ TWA
<i>Boric Acid; H₃BO₃</i>	
Australia TWA	12 mg/m ³
Belgium - 8 Hr TWA	2 mg/m ³ TWA borate
Bulgaria - Occupational Exposure Limits - TWAs	5.0 mg/m ³ TWA (as B, listed under Boron and its inorganic compounds)
German mak	TWA: 10 mg/m ³ Ceiling / Peak: 10 mg/m ³

	TWA: 0.5 mg/m ³
Latvia - Occupational Exposure Limits - TWAs	10 mg/m ³ TWA
Portugal	STEL: 6 mg/m ³ TWA: 2 mg/m ³
Spain OEL - Time Weighted Average (TWA):	STEL: 6 mg/m ³ TWA: 2 mg/m ³
Switzerland	STEL: 10 mg/m ³ TWA: 10 mg/m ³
<i>Copper-EDTA; Cu-EDTA</i>	
Austria	STEL 4 mg/m ³ STEL 0.4 mg/m ³ TWA: 1 mg/m ³ TWA: 0.1 mg/m ³
Australia TWA	N.A.
Finland	TWA: 1 mg/m ³

Derived No Effect Level (DNEL)

No data available

Predicted No Effect Concentration (PNEC)

No data available.

8.2. Exposure controls

Engineering Measures to Reduce Exposure: Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/Face Protection: Not required Wear face-shield and protective suit for abnormal processing problems.
 Hand protection: Nitrile rubber (0.26 mm). Break through time. > 8 h.
 Respiratory Protection: In case of insufficient ventilation wear suitable respiratory equipment.
 Skin and Body Protection: Lightweight protective clothing
 Hygiene Measures: Follow good housekeeping practices. When using, do not eat, drink or smoke. Keep away from food, drink and animal feeding stuffs.

Environmental exposure controls Do not allow into any sewer, on the ground or into any body of water.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical State:	Solid
Appearance:	Prills, flakes and powder
Color:	Off-white.
Odor:	Not significant
Bulk density:	+/- 1.13 kg/dm ³
pH:	no data available
Melting Point/Freezing Point:	no data available
Boiling Point/Range:	Solid, Not Applicable
Flash Point:	Solid, Not Applicable
Evaporation Rate:	Solid, Not Applicable
Flammability (solid, gas):	Non-flammable
Vapor Pressure:	Solid, Not Applicable
Vapor Density:	Solid, Not Applicable
Specific Gravity:	no data available
Water Solubility:	Soluble in water
Solubility(ies)	no data available
Partition Coefficient:	Solid, Not Applicable
Autoignition Temperature:	Not Applicable
Decomposition Temperature:	no data available
Explosive Properties:	Doesn't present explosion hazard. Based on data of ingredients.

9.2. Other information

Not applicable

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

Not reactive.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous Decomposition Products:

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Possibility of Hazardous Reactions:

None under normal processing.

10.4. Conditions to avoid

For quality reasons: Keep out of reach of direct sunlight, store under dry conditions, partly used bags should be closed well.

10.5. Incompatible materials

10.6. Hazardous decomposition products

None under normal processing.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute Toxicity

Product Information:

Inhalation: May cause irritation of respiratory tract.
Eye Contact: Causes serious eye irritation.
Skin Contact: Causes skin irritation.
Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Unknown Acute Toxicity: 0% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document:

ATEmix (oral): 1,864.00 mg/kg

Skin Corrosion or Irritation See also section 3.
Serious Eye Damage or Eye Irritation See also section 3.
Sensitization See also section 3.
Mutagenic effects See also section 3.
Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Reproductive Toxicity

Ingredients	EU - GHS - SV - CLP (1272/2008) - Reproductive Toxicity
Boric Acid; H ₃ BO ₃	Reproductive Toxicity - Repr. 1B: H360FD May damage fertility. May damage the unborn child. (C >= 5.5 %)

Teratogenicity No known effects under normal use conditions.
STOT - Single Exposure-Category 3 (H335) No known effects under normal use conditions.
STOT - Repeated Exposure None under normal use conditions.
Aspiration Hazard None under normal use.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Do not allow product to enter the environment uncontrolled.

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

Ingredients	Algae/aquatic plants	Fish	Crustacea
Nitric acid ammonium calcium salt		447: 48 h Carassius auratus mg/L LC50	
Boric Acid; H ₃ BO ₃		1020: 72 h Carassius auratus mg/L LC50 flow-through	115 - 153: 48 h Daphnia magna mg/L EC50

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

Component	LOGPOW
Nitric acid ammonium calcium salt 15245-12-2 (10 - 30%)	0
Boric Acid; H ₃ BO ₃ 10043-35-3 (0.1 - 1%)	-0.757

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No data available

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods**Disposal of Wastes:**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging:

Do not re-use empty containers. Dispose of as unused product.

Other Information:

Use up product completely. Packaging material is industrial waste.

Section 14: TRANSPORT INFORMATION

Hazchem code: 1Z

IMO / IMDG**14.1****UN-No:** 1486**14.2****Proper shipping name:** Potassium nitrate Mixture**14.3****Hazard Class:** 5.1**14.4****Packing group:** III**14.5****Marine Pollutant:** No information available**14.6****EmS:** F-A / S-Q**Special Provisions** 964, 967**14.7****Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not regulated**ADR/RID****14.1****UN-No:** 1486**14.2****Proper shipping name:** Potassium nitrate Mixture**14.3****Hazard Class:** 5.1**14.4****Packing group:** III**14.5****Environmental Hazard** Not regulated**14.6****Special Provisions** None**Tunnel restriction code** E

Limited Quantity 5 kg

IATA

14.1
UN-No: 1486
14.2
Proper shipping name: Potassium nitrate Mixture
14.3
Hazard Class: 5.1
14.4
Packing group: III
14.5
Environmental Hazard Not regulated
14.6
Special Provisions None



Section 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH:

Component	EU - REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances
Boric Acid; H ₃ BO ₃ 10043-35-3 (0.1 - 1%)	Use restricted. See item 30.
No data available	

National regulationsBelgiumDenmark

Danish Sikkerhedsgruppe Not regulated

France

ICPE Classified installation: article 1230

Germany

Gefahrstoffverordnung (Germany) TRGS 511 Not regulated
 LGK (Germany) 5.1B
 Water Endangering Class (WGK): 1 (Everris classification)

Component	German WGK Section
Potassium Nitrate; KNO ₃ 7757-79-1 (30 - 60%)	class 1
Ureaphosphate 4861-19-2 (10 - 30%)	class 1
Boric Acid; H ₃ BO ₃ 10043-35-3 (0.1 - 1%)	class 1
Copper-EDTA; Cu-EDTA 14025-15-1 (0.1 - 1%)	class 2

European Union

Take note of Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values

15.2 Chemical safety assessment

Not required. Substance(s) usage is covered according to Reach regulation 1907/2006.

Section 16: OTHER INFORMATION**Full text of H-Statements referred to under sections 2 and 3**

H360FD - May damage fertility. May damage the unborn child

H319 - Causes serious eye irritation

H302 - Harmful if swallowed

H318 - Causes serious eye damage

H314 - Causes severe skin burns and eye damage

Key or legend to abbreviations and acronyms used in the safety data sheet

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail

ICAO: International Civil Aviation Organization

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labeling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PNEC: Predicted No Effect Concentration

DNEL: Derived No-Effect Level

Reach: Registration, Evaluation, authorization of Chemicals

CLP: EU-GHS; Classification, Labelling and Packaging

OEL: Occupational Exposure Limit

TWA: Time Weighted Average

ATE: Acute Toxicity Estimate

EUH statement: CLP (EU) specific hazard statement.

Classification procedure:

- Calculation method
- Expert judgment and weight of evidence determination

Key literature references and sources for data

According to EC Regulation 1907/2006 (Reach), Regulation EU No. 2015/830. Regulation (EC) No 1272/2008.

Prepared by:

Regulatory Affairs Department (INFO-MSDS@EVERRIS.COM)

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*** Indicates changes since the last revision. This version replaces all previous versions.

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

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End of Safety Data Sheet